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El Presidente

Junta de Epergia Muclear

Mardid, 25th February 1966

Dear Dr. Hall:

Thank you for your letter of the 25th February regarding the expansion of our collaboration in the fields of Health and Safety, in • ccordmce with the Agreement for Cooperation for civil Uses of Atomic Energy between Spain and the United States.

I have the pleasure to inform you that the Minister
of Industry has authorized the Junta de Energio Muclear
to Occept the proposal, as _sic/ the terms stated 00 your letter
and details contained in the Onclosure thereto. I am confident
that this work will contribute to improve oven more the
relations between our organizations.

Sincerely

/s/ J.M. Otero

· 3 11/19 05:00

TAB B

Dear Professor Otero:

Pursuant to our Agreement for Cooperation for Civil Uses of Atomic Energy between Spain and the United States I wish to propose that we expand our collaboration in the fields of health and safety. Accordingly, on behalf of the United States Atomic Energy Commission and In accordance with the relevant articles in our Agreement for Cooperation of August 16, 1957, as amended, I suggest we investigate various health and safety aspects of fissionable materials when released into a rural agricultural environment.

Collaborative investigations shall be initiated as soon as possible of the physiological and ecological behavior of plutonium oxide in a previously contaminated rural area that has been decontaminated in accordance with mutually agreed upon decontamination limits and procedures. More specifically the investigations shall consist of the points I have set forth in the attached annex to this letter. "

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It Is understood that information considered essential to our collaboration shall be shared freely by the two agencies as well as all information derived from these investigations. It is further understood that the results derived shall not be released to the public without the concurrence of the two agencies.

If these proposals are acceptable to you, I suggest that . this letter and your letter of acceptance shall constitute an understanding on these subjects between our two agencies.

Sincerely,.

/s/ John A. Hall

John A. Hall
Assistant General Manager for
International Activities
ATONIC ENERGY COMMISSION

Excmo. S r. D. José María Oterc Navascues.
Marques de Hermosilla,
Presidente de la Junta de
Energía Nuclear,
Avenida Complutense 22,
Ciudad Universitaria

Enclosure: Annex

ANNEx

- CollectIon of information on uptake and retention
 of plutonium and uranium by representative numbers
 of a population group potentially exposed to
 Inhalation of a plutonium oxide aerosol,
- 2. measurement of temporal and seasonal fluctuations in plutonium air concentrations above a plutonium oxide contaminated agricultural area that has been subjected to the agreed upon decontamination procedures,
- 3. serial measurements of contamination levels (both by plant uptake from the soil and wind dispersal) "of agricultural products produced in a contaminated area subsequent to decontamination, and DOE ARCHIVES
- 4. studies of the temporal migration and redistribution of plutonium oxide in soil, decontaminated by deep plowing, as a result of continued cultivation and weathering.



The Junta will assume the position of principal...
investigator with the U. S. A.E. C. providing support in the
form of technical assistance and advice and specialized
equipment and materials not readily available to the Junta.

In the role of principal Investigate or the Junta will assume responsibility for the following:

- 1. Provision of'. building and laboratory space required to initiate and carry on the program.
- Establishment, with the help of U.S.
 specialists, of sampling methods, routines
 and schedules for population, air, produce
 and soil measurements.
- 2. Frovision of logistic support required by. sampling and measuring schedules.
- 4. Performance of all scientific measurements and tests.
- 5. Compilation and documentation of all scientific data.

 DOE ARCHIVES
- 6. Provision of travel for itsown specialists sent to the United States for consultation, planning or training purposes.

In the role of secondary Investigator, the- U. S.A.E.C. will assume responsibility for the following:

- 1. Provision, either through funding or by transfer, of specialized equipment and material required by the program. During the first year this will consist of:
 - a. A whole body counter, complete with crystal spectrometer and plutonium X-ray detector.
 - b. One (8 place) scintillation alpha counter of the type currently in use at the Los Alamos Scientific Laboratory or the New York Health and Safety Laboratory.
 - c. One alpha spectrometer complete with multi-channel analyzer and data read. out equipment.
 - d. Additional, less specialized equipment, such as analytical balances, centrifuges, special chemicals, etc., in the amount of approximately \$15,000.
 - e. Plutonium and uranium analytical standards.
 - f. Four generator-powered Hi-Vol air samplers of' the latest design for continuous field operation.

- 2. Provision of a visiting specialist.ta install and calibrate the whole body counter and to train Junta personnel in Its use.
- 3. Provision of visiting specialists in methods of plutonium and uranium analysis, to install specialized analytical equipment and train

 Junta personnel in techniques of plutonium and uranium measurement which are used in the United States, published and unpublished.
- 4. Provision of a visiting specialist in soil and plant sciences to help develop the studies of plutonium translocation In the soil and its uptake by cultivated crops.
- 5. Continued provision, beyond the first year, of specialized equipment, technical assistance and ' advice for as long as both parties mutually agree to be desirable on the basis of the observations as they are obtained.

DOE ARCHIVES

El Presidente de la Junta de Energia Nuclear

Madrid, 25th February 1966

Dear Dr. Hall:

Thank you for your letter of the 25th February regarding the expansion of our collaboration In the fields of Health and Safety, in accordance with the Agreement for Cooperation for Civil Uses of Atomic Energy between Spain and the United States.

I have the pleasure to inform you that the Minister of Industry has authorized the Junta de Energia Nuclear to accept the proposal, and the terms stated on your letter and details contained in the enclosure thereto. I am confident that this work will contribute to improve even more the relations between our organizations.

Sincerely,

/s/Jose Ma DOE ARCHIVES
Otero